

APPENDIX F
San Diego Bay Watershed Management Area
Priority and Highest Priority Water Quality Conditions Evaluation

HU HA/HSA and Waterbody	Pollutant Category	Priority Water Quality Conditions Criteria					Highest Priority Water Quality Conditions Criteria						
		Condition exceeds Regional Water quality benchmarks in receiving water in wet weather, dry weather, or both (Provision B2c1(c))	Condition is impairment of beneficial uses - 303(d) (Provision B2c1(a))	MS4 conveyances contribute to the condition in the receiving water (Provision B2c1(d))	Monitoring data of acceptable quality and no data gaps (Provision B2c1(e))	Is it a priority condition?	Dataset is spatially and temporally appropriate and contains robust science-based data No studies indicate water quality standards are now being met	There acceptable standards/ criteria established for condition	Evidence that MS4 Discharges are a predominant source of the condition	The condition impairs an existing beneficial use as defined in the Basin Plan	Water quality improvement strategies to control condition are available to RPs	Would the condition not be addressed by strategies identified for other Highest Priority Conditions¹	Is it a Highest Priority Condition?
Pueblo Watershed													
Pueblo Point Loma/908.1 Shelter Island Yacht Basin	Metals (Dissolved Copper)	Yes	Approved TMDL – automatically a PWQC; Impairment of EST	Yes	Yes	Yes	No, City of San Diego’s TMDL compliance monitoring of MS4 discharge indicates WLAs are being met However, the US Navy toxicity study indicates NASSCO MS4 discharges have exhibited toxicity to organisms and the stressors identified were copper and zinc	There is an established numeric standard in the Basin Plan and the California Toxics Rule for dissolved copper	Although LTEA identifies MS4 sources of copper in wet weather, monitoring data indicates the Copermittee’s MS4 are not predominant sources of the condition	Yes, EST	LTEA identifies strategies that address MS4 copper issues	No, strategies for other Highest Priority Conditions will address this condition.	No
Pueblo Point Loma/908.1 Shelter Island Shoreline Park	Bacteria	Yes	Approved TMDL – automatically a PWQC; Impairment of REC-1	Yes	Yes	Yes	MLOE not supporting	There are established numeric standards in the Basin Plan	No, Port of San Diego completed a delisting study and demonstrated MS4 is not source of bacteria	Yes, REC-1	LTEA identifies strategies that address MS4 bacteria issues	No, strategies for other Highest Priority Conditions will address this condition.	No
Pueblo San Diego Mesa/ 908.22 Chollas Creek	Metals (Dissolved Copper, zinc, and lead)	Yes	Approved TMDL – automatically a PWQC; Impairment of WARM	Yes	Yes	Yes	1. LTEA: Water quality data supports elevated levels of copper, lead, and zinc during wet conditions and copper in dry conditions 2. Annual Regional Monitoring: supports elevated levels of copper in receiving water during wet conditions 3. 303(d) listings: supported by data in the lines of evidence	There are established numeric standards (basin plan and California Toxics Rule) for copper, lead, and zinc	LTEA identifies MS4 sources of copper, lead, and zinc in wet weather Atmospheric deposition also noted as uncontrollable source	Yes, WARM	LTEA identifies strategies that address MS4 metals issues	Yes	Yes
Pueblo San Diego Mesa/ 908.22 Chollas Creek	Bacteria	Yes, wet weather	Approved TMDL – automatically a PWQC; Impairment of REC-1	Yes	Yes	Yes	1. LTEA: Water quality data supports elevated levels of indicator bacteria during wet and dry conditions 2. Annual Regional Monitoring: supports elevated levels of indicator bacteria during wet and dry conditions 3. 303(d) listings: supported by data in the lines of evidence	There are established numeric standards (basin plan, REC-1 Bacteria TMDL in SD County) for indicator bacteria	LTEA identifies MS4 sources of bacteria; However, natural sources contributed unknown amounts of non-MS4 loadings of bacteria to the receiving waters	No, REC-1 is a potential beneficial use	LTEA identifies strategies that address MS4 bacteria issues	Yes	Yes
Pueblo San Diego Mesa/ 908.22 Chollas Creek	Diazinon	No	Approved TMDL – automatically a PWQC; Impairment of WARM	Yes	Yes	Yes	303(d) listing/TMDL not supported with data in lines of evidence	Basin plan water quality objectives are narrative	MS4 not predominant source due to true source control measures (US EPA ban of product)	Yes, WARM	LTEA identifies strategies that address MS4 diazinon issues	No, strategies for other Highest Priority Conditions will address this condition.	No

Notes:

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Pueblo San Diego Mesa/ 908.22 Chollas Creek	Nutrients (Phosphorus , Total Nitrogen)	Yes, Phosphorus - dry weather Total Nitrogen - wet and dry weather	303(d) listing for WARM	Yes	Yes	Yes	1. LTEA: Water quality data supports elevated levels of various nutrients during dry conditions 2. Annual Regional Monitoring: supports elevated levels of various nutrients during dry conditions in receiving water 3. 303(d) listings: supported by data in the lines of evidence	Basin Plan Water Quality Objectives provide a nitrogen to phosphorus ratio with goal objectives for phosphorus	LTEA identifies MS4 sources of nutrients However, groundwater intrusion has also been found to be source of nutrients in MS4 systems	Yes, WARM	LTEA identifies strategies that address MS4 nutrient issues	No, strategies for other Highest Priority Conditions will address this condition.	No
Pueblo San Diego Mesa/ 908.22 Chollas Creek	Trash	Yes	13267 Investigative Order – automatically a PWQC; Impairment of REC-2	Yes	Yes	Yes	1. Annual Regional Monitoring: supports elevated levels of trash during dry weather 2. 303(d) listings: supported by data in the lines of evidence 3. Identified as an issue from Public Input	Basin plan water quality objectives are narrative	LTEA identifies MS4 sources of trash in wet weather, but other non-MS4 sources may contribute	Yes, REC-2	LTEA identifies MS4 sources of trash in wet weather, but other non-MS4 sources may contribute	No, strategies for other Highest Priority Conditions will address this condition.	No
Pueblo San Diego Mesa/ 908.22 Chollas Creek	Turbidity	Yes	No	Yes	Yes	No							No
Pueblo San Diego Mesa/ 908.22 Chollas Creek (at Mouth)	PAHs	Yes, wet weather	Draft TMDL – automatically a PWQC; Impairment of MAR	Yes	Yes	Yes	MLOE not supporting: Monitoring done for draft TMDL supports listing; However, source identification studies are needed to link to MS4 and potential sources	Basin plan water quality objectives are narrative	Unknown if predominant Draft TMDL identifies Phase I MS4 as source, but Caltrans, US Navy, Phase II MS4s, and enrollees of Industrial and construction general permits also identified as responsible parties Atmospheric deposition noted as uncontrollable source	Yes, MAR	LTEA identifies strategies that address MS4 organics issues	No, strategies for other Highest Priority Conditions will address this condition.	No

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Pueblo San Diego Mesa/ 908.22 Chollas Creek (at Mouth)	Chlordane	Yes, wet weather	Draft TMDL – automatically a PWQC; Impairment of COMM	Yes	Yes	Yes	MLOE not supporting: Monitoring done for draft TMDL supports listing; However, source identification studies are needed to link to MS4 and potential sources	Basin plan water quality objectives are narrative	Unknown if predominant Draft TMDL identifies Phase I MS4 as source, but Caltrans, US Navy, Phase II MS4s, and enrollees of Industrial and construction general permits also identified as responsible parties	Yes, COMM	LTEA identifies strategies that address MS4 organics issues	No, strategies for other Highest Priority Conditions will address this condition.	No
Pueblo San Diego Mesa/ 908.22 Chollas Creek (at Mouth)	PCBs	Yes, wet weather	Draft TMDL – automatically a PWQC; Impairment of COMM	Yes	Yes	Yes	MLOE not supporting: Monitoring done for draft TMDL supports listing; However, source identification studies are needed to link to MS4 and potential sources	Basin plan water quality objectives are narrative	Unknown if predominant Draft TMDL identifies Phase I MS4 as source, but Caltrans, US Navy, Phase II MS4s, and enrollees of Industrial and construction general permits also identified as responsible parties	Yes, COMM	LTEA identifies strategies that address MS4 organics issues	No, strategies for other Highest Priority Conditions will address this condition.	No
Pueblo San Diego Mesa/ 908.2 San Diego Bay Shoreline, between Sampson and 28th Streets	Copper	Yes	303(d) listing for MAR	Yes	No	No							No

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Pueblo San Diego Mesa/ 908.2 San Diego Bay Shoreline, between Sampson and 28th Streets	PAHs	Yes	Draft TMDL – automatically a PWQC; Impairment of MAR	Yes	Yes	Yes	303(d) listing/TMDL not supported with data in lines of evidence	Basin plan water quality objectives are narrative	Unknown if predominant Draft TMDL identifies Phase I MS4 as source, but Caltrans, US Navy, Phase II MS4s, and enrollees of Industrial and construction general permits also identified as responsible parties Atmospheric deposition noted as uncontrollable source	Yes, MAR	LTEA identifies strategies that address MS4 organics issues	No, strategies for other Highest Priority Conditions will address this condition.	No
Pueblo San Diego Mesa/ 908.2 San Diego Bay Shoreline, between Sampson and 28th Streets	Mercury	Yes	Draft TMDL – automatically a PWQC; Impairment of MAR	No	No	Yes	MLOE not supporting	There are established numeric standards in the Basin Plan	Unknown if predominant Draft TMDL identifies Phase I MS4 as source, but Caltrans, US Navy, Phase II MS4s, and enrollees of Industrial and construction general permits also identified as responsible parties	Yes, MAR	LTEA identifies strategies that address MS4 organics issues	No, strategies for other Highest Priority Conditions will address this condition.	No
Pueblo San Diego Mesa/ 908.2 San Diego Bay Shoreline, between Sampson and 28th Streets	PCBs	Yes	Draft TMDL – automatically a PWQC; Impairment of MAR	No	No	Yes	MLOE not supporting	Basin plan water quality objectives are narrative	Unknown if predominant Draft TMDL identifies Phase I MS4 as source, but Caltrans, US Navy, Phase II MS4s, and enrollees of Industrial and construction general permits also identified as responsible parties	Yes, MAR	LTEA identifies strategies that address MS4 organics issues	No, strategies for other Highest Priority Conditions will address this condition.	No

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Pueblo San Diego Mesa/ 908.2 San Diego Bay Shoreline, between Sampson and 28th Streets	Zinc	Yes	Draft TMDL – automatically a PWQC; Impairment of MAR	No	No	Yes	MLOE not supporting	There are established numeric standards in the Basin Plan and California Toxics Rule	Unknown if predominant Draft TMDL identifies Phase I MS4 as source, but Caltrans, US Navy, Phase II MS4s, and enrollees of Industrial and construction general permits also identified as responsible parties Atmospheric deposition noted as uncontrollable source	Yes, MAR	LTEA identifies strategies that address MS4 metals issues	No, strategies for other Highest Priority Conditions will address this condition.	No
Pueblo San Diego Mesa/ 908.2 San Diego Bay Shoreline, near Switzer Creek (at the Mouth)	PAHs	Yes, wet weather	Draft TMDL – automatically a PWQC Impairment of MAR	Yes	Yes	Yes	MLOE not supporting: Monitoring done for draft TMDL supports listing; However, source identification studies are needed to link to MS4 and potential sources	Basin plan water quality objectives are narrative	Unknown if predominant Draft TMDL identifies Phase I MS4 as source, but Caltrans, US Navy, Phase II MS4s, and enrollees of Industrial and construction general permits also identified as responsible parties Atmospheric deposition noted as uncontrollable source	Yes, MAR	LTEA identifies strategies that address MS4 organics issues	No, strategies for other Highest Priority Conditions will address this condition.	No
Pueblo San Diego Mesa/ 908.2 San Diego Bay Shoreline, near Switzer Creek (at the Mouth)	PCBs	Yes, wet weather	Draft TMDL – automatically a PWQC Impairment of MAR	Yes	Yes	Yes	MLOE not supporting: Monitoring done for draft TMDL supports listing; However, source identification studies are needed to link to MS4 and potential sources	Basin plan water quality objectives are narrative	Unknown if predominant Draft TMDL identifies Phase I MS4 as source, but Caltrans, US Navy, Phase II MS4s, and enrollees of Industrial and construction general permits also identified as responsible parties	Yes, MAR	LTEA identifies strategies that address MS4 organics issues	No, strategies for other Highest Priority Conditions will address this condition.	No

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Pueblo San Diego Mesa/ 908.2 San Diego Bay Shoreline, near Switzer Creek (at the Mouth)	Chlordane	Yes, wet weather	Draft TMDL – automatically a PWQC Impairment of MAR	Yes	Yes	Yes	MLOE not supporting: Monitoring done for draft TMDL supports listing; However, source identification studies are needed to link to MS4 and potential sources	Basin plan water quality objectives are narrative	Unknown if predominant Draft TMDL identifies Phase I MS4 as source, but Caltrans, US Navy, Phase II MS4s, and enrollees of Industrial and construction general permits also identified as responsible parties	Yes, MAR	LTEA identifies strategies that address MS4 organics issues	No, strategies for other Highest Priority Conditions will address this condition.	No
Pueblo San Diego Mesa/ 908.22 Switzer Creek	Copper	Yes	303(d) listing for WARM	No	No	No							No
Pueblo San Diego Mesa/ 908.22 Switzer Creek	Lead	Yes	303(d) listing for WARM	No	No	No							No
Pueblo San Diego Mesa/ 908.22 Switzer Creek	Zinc	Yes	303(d) listing for WARM	No	No	No							No
Pueblo National City/908.3 Paleta Creek	Copper	Yes	303(d) listing for Copper	No	No	No							No
Pueblo National City/908.3 Paleta Creek	Lead	Yes	303(d) listing for Copper	No	No	No							No

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Pueblo National City/908.3 Mouth of Paleta Creek/Sevent h Street Channel	PAHs	Yes, wet weather	Draft TMDL – automatically a PWQC Impairment of MAR	Yes	Yes	Yes	MLOE not supporting: Monitoring done for draft TMDL supports listing; However, source identification studies are needed to link to MS4 and potential sources	Basin plan water quality objectives are narrative	Unknown if predominant Draft TMDL identifies Phase I MS4 as source, but Caltrans, US Navy, Phase II MS4s, and enrollees of Industrial and construction general permits also identified as responsible parties Atmospheric deposition noted as uncontrollable source	Yes, MAR	LTEA identifies strategies that address MS4 organics issues	No, strategies for other Highest Priority Conditions will address this condition.	No
Pueblo National City/908.3 Mouth of Paleta Creek/Sevent h Street Channel	PCBs	Yes, wet weather	Draft TMDL – automatically a PWQC Impairment of MAR	Yes	Yes	Yes	MLOE not supporting: Monitoring done for draft TMDL supports listing; However, source identification studies are needed to link to MS4 and potential sources	Basin plan water quality objectives are narrative	Unknown if predominant Draft TMDL identifies Phase I MS4 as source, but Caltrans, US Navy, Phase II MS4s, and enrollees of Industrial and construction general permits also identified as responsible parties	Yes, MAR	LTEA identifies strategies that address MS4 organics issues	No, strategies for other Highest Priority Conditions will address this condition.	No
Pueblo National City/908.3 Mouth of Paleta Creek/Sevent h Street Channel	Chlordane	Yes, wet weather	Draft TMDL – automatically a PWQC Impairment of MAR	Yes	Yes	Yes	MLOE not supporting: Monitoring done for draft TMDL supports listing; However, source identification studies are needed to link to MS4 and potential sources	Basin plan water quality objectives are narrative	Unknown if predominant Draft TMDL identifies Phase I MS4 as source, but Caltrans, US Navy, Phase II MS4s, and enrollees of Industrial and construction general permits also identified as responsible parties	Yes, MAR	LTEA identifies strategies that address MS4 organics issues	No, strategies for other Highest Priority Conditions will address this condition.	No

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Sweetwater Watershed													
Sweetwater Lower Sweetwater (909.1) Lower Sweetwater River below reservoir	Bacteria	Yes, wet and dry weather	303(d) listing for REC-1	MS4 listed as source in 303(d) listing and supported by MS4 monitoring data	Yes	Yes	1. LTEA: Water quality data supports elevated levels of indicator bacteria during wet and dry conditions 2. Annual Regional Monitoring: supports elevated levels of indicator bacteria during wet and dry conditions 3. 303(d) listings: supported by data in the lines of evidence	There are established numeric standards in the Basin Plan	LTEA identifies MS4 sources of bacteria; However, natural sources contributed unknown amounts of non-MS4 loadings of bacteria to the receiving waters	No, REC-1 is a potential beneficial use	LTEA identifies strategies that address MS4 bacteria issues	No, strategies for other Highest Priority Conditions will address this condition.	No
Sweetwater Lower Sweetwater (909.1) Lower Sweetwater River below reservoir	TDS	Yes, wet weather	303(d) listing for WARM	303(d) listing indicates MS4 potential source but not supported by MS4 monitoring data	Yes	No	1. LTEA: Water quality data supports elevated levels of TDS during wet and dry conditions 2. Annual Regional Monitoring: supports elevated levels of TDS during dry conditions 3. 303(d) listings: supported by data in the lines of evidence	There are established numeric standards in the Basin Plan	Unknown	Yes, WARM	No strategies available to adequately address	No, strategies for other Highest Priority Conditions will address this condition.	No
Sweetwater Lower Sweetwater (909.1) Lower Sweetwater River below reservoir	Nutrients	Yes	303(d) listing for WARM for nitrogen and phosphorous	303(d) listing indicates MS4 potential source but not supported by MS4 monitoring data	Yes	Yes	1. LTEA: Water quality data supports elevated levels of various nutrients during dry conditions 2. Annual Regional Monitoring: supports elevated levels of various nutrients during dry conditions in receiving water 3. 303(d) listings: supported by data in the lines of evidence	Basin Plan Water Quality Objectives provide a nitrogen to phosphorus ratio with goal objectives for phosphorus	LTEA identifies MS4 sources of nutrients; However, groundwater intrusion has been found to be source of nutrients in MS4 systems	Yes, WARM	LTEA identifies strategies that address MS4 nutrient issues	No, strategies for other Highest Priority Conditions will address this condition.	No
Sweetwater Lower Sweetwater (909.1)	Trash	No	Public input	Yes	Yes	Yes	MLOE not supporting	Basin plan water quality objectives are narrative	LTEA identifies MS4 sources of trash in wet weather, but other non-MS4 sources may contribute	No	LTEA identifies strategies that address MS4 trash issues	No, strategies for other Highest Priority Conditions will address this condition.	No
Sweetwater Middle Sweetwater (909.2)	Bacteria	Yes	No	MS4 not indicated in 303(d) as potential source but MS4 monitoring data supports	Yes	Yes	1. LTEA: Water quality data supports elevated levels of various bacteria during wet and dry conditions 2. Annual Regional Monitoring: Although available shows elevated levels of bacteria during wet and dry conditions in receiving water, dry weather in MS4, the dataset is not robust enough to be considered highest priority 3. 303(d) listings: not listed	There are established numeric standards in the Basin Plan	LTEA identifies MS4 sources of bacteria; However, natural sources contributed unknown amounts of non-MS4 loadings of bacteria to the receiving waters	No	LTEA identifies strategies that address MS4 bacteria issues	No, strategies for other Highest Priority Conditions will address this condition.	No

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Otay Watershed													
Otay Coronado/ 910.1 Pacific Ocean Shoreline at Carnation Ave and Camp Surf Jetty	Bacteria	Yes	303(d) listed for REC-1	Yes	No	Yes	MLOE not supporting	There are established numeric standards in the Basin Plan	LTEA identifies MS4 sources of bacteria; However, natural sources contributed unknown amounts of non-MS4 loadings of bacteria to the receiving waters	Yes, REC-1	LTEA identifies strategies that address MS4 bacteria issues	No, strategies for other Highest Priority Conditions will address this condition.	No
Otay Coronado / 910.1 Pacific Ocean Shoreline at Tidelands Park	Bacteria	Yes	303(d) listing for REC-1 for Enterococcus and SHELL for Total Coliform	Yes	No	Yes	1. 303(d) listing/TMDL not supported with data in lines of evidence (spatial and temporal factors) 2. Annual Regional Monitoring: does not support elevated levels of bacteria during wet and dry conditions in receiving water and MS4 3. RPs reviewing Coastal Stormdrain Monitoring and DEH AB411 data to verify whether the listing is supported	There are established numeric standards in the Basin Plan	LTEA: Water quality data does not support condition	Yes, REC-1	LTEA identifies strategies that address MS4 bacteria issues Diversio n of non- stormwater and first flush stormwater in place	No, strategies for other Highest Priority Conditions will address this condition.	No
Otay Dulzura / 910.3 Lower Otay Reservoir	Nitrogen	Yes	303(d) listing for WARM	Yes	No	Yes	MLOE not supporting	Basin Plan Water Quality Objectives provide a nitrogen to phosphorus ratio with goal objectives for phosphorus	LTEA identifies MS4 sources of nutrients However, groundwater intrusion has also been found to be source of nutrients in MS4 systems	No	LTEA identifies strategies that address MS4 nutrient issues	No, strategies for other Highest Priority Conditions will address this condition.	No

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